Index of authors and papers to Volume 274

Albuquerque, E.L., *see* Filho, R.N.C. 274 (1999) 545
Alstrøm, P., Mikkelsen, R., Gustafsson, F. and Holstein-Rathlou, N.-H., 'Sausage-string' deformations of blood vessels at high blood pressures 274 (1999) 111
Amaral, L.A.N., *see* Havlin, S. 274 (1999) 99
Arai, T., *see* Matsushita, M. 274 (1999) 190
Arkin, H., Çelik, T., Berg, B.A. and Meyer-Ortmanns, H., Phase separation in a weak first-order phase transition 274 (1999) 320
Ashkenazy, Y., *see* Havlin, S. 274 (1999) 99
Ausloos, M., Vandewalle, N., Boveroux, Ph., Minguet, A. and Ivanova, K., Applications of statistical physics to economic and financial topics 274 (1999) 229
Ausloos, M., *see* Ivanova, K. 274 (1999) 349

Banavar, J.R., *see* Cieplak, M. 274 (1999) 281
Barbosa, M.C., *see* Kuhn, P.S. 274 (1999) 8
Barbosa, M.C., *see* Diehl, A. 274 (1999) 433
Berg, B.A., *see* Arkin, H. 274 (1999) 320
Bizon, C., *see* Shattuck, M.D. 274 (1999) 158
Boveroux, Ph., *see* Ausloos, M. 274 (1999) 229
Brochard-Wyart, F., *see* Fondecave, R. 274 (1999) 19
Buldyrev, S.V., *see* King, P.R. 274 (1999) 60

Casas-Vázquez, J., *see* Criado-Sancho, M. 274 (1999) 466
Çelik, T., *see* Arkin, H. 274 (1999) 320
Çelik, T., *see* Yaşar, F. 274 (1999) 537
Cieplak, M., Koplik, J. and Banavar, J.R., Applications of statistical mechanics in subcontinuum fluid dynamics 274 (1999) 281
Clausen, S., *see* Skjeltorp, A.T. 274 (1999) 267
Criado-Sancho, M., Jou, D. and Casas-Vázquez, J., On the Ginzburg–Landau expression for the free energy of solutions under flow 274 (1999) 466
Czirók, A., *see* Vicsek, T. 274 (1999) 182

D'Auria, A.C., De Cesare, L., Mercaldo, L. and Rabuffo, I., Renormalization group and variational treatments for a d-dimensional sine-Gordon model with correlated random fields 274 (1999) 410
De Cesare, L., *see* D'Auria, A.C. 274 (1999) 410
de Gennes, P.-G., Problems of DNA entry into a cell 274 (1999) 1
Diehl, A., Tamashiro, M.N., Barbosa, M.C. and Levin, Y., Density-functional theory for attraction between like-charged plates 274 (1999) 433
Dokholyan, N.V., *see* King, P.R. 274 (1999) 60

Edwards, S.F., Equations of granular materials 274 (1999) 310

Farkas, H., *see* Volford, A. 274 (1999) 30
Farkas, I.J., *see* Vicsek, T. 274 (1999) 182
Filho, R.N.C. and Albuquerque, E.L., Fractal aspects of the spin wave spectra in pure and generalized Fibonacci anisotropic magnetic superlattices 274 (1999) 545

Fisher, M.E. and Kolomeisky, A.B., Molecular motors and the forces they exert 274 (1999) 241
Fondecave, R. and Brochard-Wyart, F., Application of statistical mechanics to the wetting of complex liquids 274 (1999) 19
Foti, D., *see* Greco, R. 274 (1999) 341
Fukuda, K., *see* Takayasu, M. 274 (1999) 140

Gadomski, A., Fractal-type relations and extensions suitable for systems of evolving polycrystalline microstructures 274 (1999) 325
Gafarov, F.M., *see* Yulmetyev, R.M. 274 (1999) 381
Galam, S., Application of statistical physics to politics 274 (1999) 132
Gábor, A. and Kondor, I., Portfolios with nonlinear constraints and spin glasses 274 (1999) 222
Ghosh, A. and Karmakar, S.N., Existence of only delocalized eigenstates in the electronic spectrum of the Thue–Morse lattice 274 (1999) 555
Gómez, J.B., *see* Moreno, Y. 274 (1999) 400
Gündüç, Y., *see* Yaşar, F. 274 (1999) 537
Goldberger, A.L., *see* Havlin, S. 274 (1999) 99
Gorecka, J.N., *see* Gorecki, J. 274 (1999) 333
Gorecki, J. and Gorecka, J.N., On the application of statistical physics for the description of nonequilibrium effects in chemical systems 274 (1999) 333
Grebogi, C., *see* Péntek, Á. 274 (1999) 120
Greco, R., Marano, G.C. and Foti, D., Strong motion duration effects on base isolated systems 274 (1999) 341
Grenfell, B.T., *see* Kleczkowski, A. 274 (1999) 355
Gustafsson, F., *see* Alstrøm, P. 274 (1999) 111
Gutiérrez, G., *see* Reyes, L.I. 274 (1999) 391

Havlin, S., *see* King, P.R. 274 (1999) 60
Havlin, S., Amaral, L.A.N., Ashkenazy, Y., Goldberger, A.L., Ivanov, P.Ch., Peng, C.-K. and Stanley, H.E., Application of statistical physics to heartbeat diagnosis 274 (1999) 99
Hefner, B.T. and Walker, J.S., An infinity of phase transitions as a function of temperature: exact results for a model with fixed-point imaging 274 (1999) 525
Helbing, D., *see* Vicsek, T. 274 (1999) 182
Helgesen, G., *see* Skjeltorp, A.T. 274 (1999) 267
Holstein-Rathlou, N.-H., *see* Alstrøm, P. 274 (1999) 111
Hong, D.C., *see* Quinn, P.V. 274 (1999) 572
Huang, S.J., Yu, Y.C., Lee, T.Y. and Lu, T.S., Correlations and characterization of porous solids by fractal dimension and porosity 274 (1999) 419
Hurd, A.J., *see* Manciu, M. 274 (1999) 588
Hurd, A.J., *see* Manciu, M. 274 (1999) 607

Inaoka, H. and Takayasu, H., Application of statistical physics to impact fragmentation 274 (1999) 300
Itoh, H., *see* Matsushita, M. 274 (1999) 190
Ivanov, P.Ch., *see* Havlin, S. 274 (1999) 99
Ivanova, K. and Ausloos, M., Application of the detrended fluctuation analysis (DFA) method for describing cloud breaking 274 (1999) 349
Ivanova, K., *see* Ausloos, M. 274 (1999) 229

Jou, D., *see* Criado-Sancho, M. 274 (1999) 466

Kadtke, J., *see* Péntek, Á. 274 (1999) 120
Karmakar, S.N., *see* Ghosh, A. 274 (1999) 555
Kertész, J., *see* Török, J. 274 (1999) 374
King, P.R., Buldyrev, S.V., Dokholyan, N.V., Havlin, S., Lee, Y., Paul, G. and Stanley, H.E., Applications of statistical physics to the oil industry: predicting oil recovery using percolation theory 274 (1999) 60

Kleczkowski, A. and Grenfell, B.T., Mean-field-type equations for spread of epidemics: the 'small world' model 274 (1999) 355
Kluijtmans, S.G.J.M., *see* Philipse, A.P. 274 (1999) 516
Kolomeisky, A.B., *see* Fisher, M.E. 274 (1999) 241
Kondor, I., *see* Gábor, A. 274 (1999) 222
Koplik, J., *see* Cieplak, M. 274 (1999) 281
Krishnamurthy, S., *see* Török, J. 274 (1999) 374
Károlyi, G., *see* Péntek, Á. 274 (1999) 120
Kuhn, P.S., Levin, Y. and Barbosa, M.C., Charge inversion in DNA–amphiphile complexes: possible application to gene therapy 274 (1999) 8
Kutner, R. and Wysocki, K., Applications of statistical mechanics to non-brownian random motion 274 (1999) 67

Lee, T.Y., *see* Huang, S.J. 274 (1999) 419
Lee, Y., *see* King, P.R. 274 (1999) 60
Levin, Y., *see* Kuhn, P.S. 274 (1999) 8
Levin, Y., *see* Diehl, A. 274 (1999) 433
López-Lemus, J. and Velasco, R.M., Slip boundary conditions in Couette flow 274 (1999) 454
Lu, T.S., *see* Huang, S.J. 274 (1999) 419
Łuczka, J., Application of statistical mechanics to stochastic transport 274 (1999) 200

Ma, W.-X., *see* Zeng, Y. 274 (1999) 505
Manciu, M., Sen, S. and Hurd, A.J., The propagation and backscattering of soliton-like pulses in a chain of quartz beads and related problems. (I). Propagation 274 (1999) 588
Manciu, M., Sen, S. and Hurd, A.J., The propagation and backscattering of soliton-like pulses in a chain of quartz beads and related problems. (II). Backscattering 274 (1999) 607
Mantegna, R.N., Palágyi, Z. and Stanley, H.E., Applications of statistical mechanics to finance 274 (1999) 216
Marano, G.C., *see* Greco, R. 274 (1999) 341
Matsushita, M., Wakita, J., Itoh, H., Watanabe, K., Arai, T., Matsuyama, T., Sakaguchi, H. and Mimura, M., Formation of colony patterns by a bacterial cell population 274 (1999) 190
Matsuyama, T., *see* Matsushita, M. 274 (1999) 190
Mazur, P., Mesoscopic nonequilibrium thermodynamics; irreversible processes and fluctuations 274 (1999) 491
Mercaldo, L., *see* D'Auria, A.C. 274 (1999) 410
Meyer-Ortmanns, H., *see* Arkin, H. 274 (1999) 320
Mikkelsen, R., *see* Alstrøm, P. 274 (1999) 111
Mimura, M., *see* Matsushita, M. 274 (1999) 190
Minguet, A., *see* Ausloos, M. 274 (1999) 229
Moreno, Y., Gómez, J.B. and Pacheco, A.F., Self-organized criticality in a fibre-bundle-type model 274 (1999) 400
Márkus, F., On the nonextensivity of entropy of the weakly interacting Bose systems 274 (1999) 563

Nelson, D.R., Population dynamics and Burgers' equation 274 (1999) 85
Noszticzius, Z., *see* Volford, A. 274 (1999) 30

Pacheco, A.F., *see* Moreno, Y. 274 (1999) 400
Palágyi, Z., *see* Mantegna, R.N. 274 (1999) 216
Pan, S.-H., *see* Wang, X.-G. 274 (1999) 484
Paredes V, R., *see* Reyes, L.I. 274 (1999) 391
Paul, G., *see* King, P.R. 274 (1999) 60
Peng, C.-K., *see* Havlin, S. 274 (1999) 99
Perel, V.I. and Shklovskii, B.I., Screening of a macroion by multivalent ions: a new boundary condition for the Poisson–Boltzmann equation and charge inversion 274 (1999) 446

Philipse, A.P. and Kluijtmans, S.G.J.M., Sphere caging by a random fibre network 274 (1999) 516
Pękalski, A., *see* Sznajd-Weron, K. 274 (1999) 91
Péntek, Á., Károlyi, G., Scheuring, I., Tél, T., Toroczkai, Z., Kadtke, J. and Grebogi, C., Fractality, chaos, and reactions in imperfectly mixed open hydrodynamical flows 274 (1999) 120

Quinn, P.V. and Hong, D.C., Fermi statistics of weakly excited granular materials in a vibrating bed: molecular dynamics simulations 274 (1999) 572

Rabuffo, I., *see* D'Auria, A.C. 274 (1999) 410
Rácz, Z., Formation of Liesegang patterns 274 (1999) 50
Reyes, L.I., Parades V, R. and Gutiérrez, G., Power law for the permeability in a two-dimensional disordered porous medium 274 (1999) 391
Roux, S., *see* Török, J. 274 (1999) 374

Sakaguchi, H., *see* Matsushita, M. 274 (1999) 190
Scheffler, T., *see* Wolf, D.E. 274 (1999) 171
Scheuring, I., *see* Péntek, Á. 274 (1999) 120
Schäfer, J., *see* Wolf, D.E. 274 (1999) 171
Sen, S., *see* Manciu, M. 274 (1999) 588
Sen, S., *see* Manciu, M. 274 (1999) 607
Shattuck, M.D., Bizon, C., Swift, J.B. and Swinney, H.L., Computational test of kinetic theory of granular media 274 (1999) 158
Shibata, H., Chaos viscosity and turbulent viscosity 274 (1999) 476
Shklovskii, B.I., *see* Perel, V.I. 274 (1999) 446
Simon, P.L., *see* Volford, A. 274 (1999) 30
Skjeltorp, A.T., Clausen, S. and Helgesen, G., Application of braid statistics to particle dynamics 274 (1999) 267
Skulski, R., Gaussian-logarithmic distribution of relaxation times in relaxor materials 274 (1999) 361
Stanley, H.E., *see* King, P.R. 274 (1999) 60
Stanley, H.E., *see* Havlin, S. 274 (1999) 99
Stanley, H.E., *see* Mantegna, R.N. 274 (1999) 216
Stroganova, S.V., Vasilevskiy, M.I. and Vikhrova, O.V., The effect of vibrational degrees of freedom on the phase transition in a 2D Ising model 274 (1999) 367
Swift, J.B., *see* Shattuck, M.D. 274 (1999) 158
Swinney, H.L., *see* Shattuck, M.D. 274 (1999) 158
Sznajd-Weron, K. and Pękalski, A., Statistical physics model of an evolving population 274 (1999) 91

Takayasu, H., *see* Takayasu, M. 274 (1999) 140
Takayasu, H., *see* Inaoka, H. 274 (1999) 300
Takayasu, M., Fukuda, K. and Takayasu, H., Application of statistical physics to the Internet traffics 274 (1999) 140
Tamashiro, M.N., *see* Diehl, A. 274 (1999) 433
Tél, T., *see* Péntek, Á. 274 (1999) 120
Toroczkai, Z., *see* Péntek, Á. 274 (1999) 120
Török, J., Krishnamurthy, S., Kertész, J. and Roux, S., Aging and self-organization of shear bands in granular materials 274 (1999) 374
Turcotte, D.L., Applications of statistical mechanics to natural hazards and landforms 274 (1999) 294

Vandewalle, N., *see* Ausloos, M. 274 (1999) 229
Vasilevskiy, M.I., *see* Stroganova, S.V. 274 (1999) 367
Velasco, R.M., *see* López-Lemus, J. 274 (1999) 454
Vicsek, T., Czirók, A., Farkas, I.J. and Helbing, D., Application of statistical mechanics to collective motion in biology 274 (1999) 182
Vikhrova, O.V., *see* Stroganova, S.V. 274 (1999) 367

Volford, A., Simon, P.L., Farkas, H. and Noszticzius, Z., Rotating chemical waves: theory and experiments 274 (1999) 30

Wakita, J., *see* Matsushita, M. 274 (1999) 190
Walker, J.S., *see* Hefner, B.T. 274 (1999) 525
Wang, X.-G., Pan, S.-H. and Yang, G.-Z., Interferencing intensity in two Bose–Einstein condensates with Josephson-like coupling 274 (1999) 484
Watanabe, K., *see* Matsushita, M. 274 (1999) 190
Wolf, D.E., Scheffler, T. and Schäfer, J., Granular flow, collisional cooling and charged grains 274 (1999) 171
Wolf, M., Applications of statistical mechanics in number theory 274 (1999) 149
Wysocki, K., *see* Kutner, R. 274 (1999) 67

Yaşar, F., Gündüç, Y. and Çelik, T., The effects of the distribution of bimodal bonds on phase transition in 2D Potts model 274 (1999) 537
Yang, G.-Z., *see* Wang, X.-G. 274 (1999) 484
Yu, Y.C., *see* Huang, S.J. 274 (1999) 419
Yulmetyev, R.M. and Gafarov, F.M., Markov and non-Markov processes in complex systems by the dynamical information entropy 274 (1999) 381

Zeng, Y. and Ma, W.-X., The construction of canonical separated variables for binary constrained AKNS flow 274 (1999) 505